

WHAT IS CLAIMED IS:

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1. A reclining mechanism for a vehicle seat, comprising:  
a first attachment member mounted to a frame structure of a seat cushion or a back rest of the vehicle seat;

a second attachment member mounted to a frame structure of the other of the back rest or the seat cushion, the attachment members being coupled with each other at their outer peripheries and connected by means of a hinge pin for relative rotation about the hinge pin, and

cam means mounted on the hinge pin in a space between said attachment members for restricting relative rotation of said attachment members when the hinge pin is retained in position under load of a torsion spring assembled thereon and for permitting relative rotation of said attachment members for adjustment of an inclined angle of the back rest when the hinge pin is rotated against the load of the torsion spring;

wherein either the frame structure of the seat cushion or the frame structure of the back rest has a support portion formed with an annular recess for engagement with the outer peripheries of said attachment members, and wherein said attachment members are assembled as a unit by engagement with the annular recess of the support portion of said frame structure at their outer peripheries.

2. A reclining mechanism for a vehicle seat, comprising:

a first attachment member mounted to a frame structure of a seat cushion or a back rest of the vehicle seat;

a second attachment member mounted to a frame structure of the other of the back rest or the seat cushion, the attachment members being coupled with each other at their outer peripheries and connected by means of a hinge pin for relative rotation about the hinge pin; and

cam means mounted on the hinge pin in a space between said attachment members for restricting relative rotation of said attachment members when the hinge pin is retained in position and for effecting relative rotation of said attachment members for adjustment an inclined angle of the back rest when the hinge pin is rotated;

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cont wherein either the frame structure of the seat cushion or the frame structure of the back rest has a support portion formed with an annular recess for engagement with the outer peripheries of said attachment members, and wherein said attachment members are assembled as a unit by engagement with the annular recess of the support portion of said frame structure at their outer peripheries.

3. A reclining mechanism for a vehicle seat, comprising:

a first attachment member mounted to a frame structure of a seat cushion or a back rest of the vehicle seat;

a second attachment member mounted to a frame structure of the other of the back rest or the seat cushion, the attachment members being coupled with each other at their outer peripheries and connected by means of a hinge pin for relative rotation about the hinge pin,

a slide pawl slidably mounted within one of the attachment members to be moved toward and away from a ratchet portion formed on an inner periphery of the other of the attachment members; and

a cam element mounted on the hinge pin in a space between said attachment members and being engaged with the slide pawl for maintaining it in engagement with the ratchet portion of the attachment member when the hinge pin is retained in position under load of a torsion spring assembled thereon and for disengaging the slide pawl from the ratchet portion of the attachment member when the hinge pin is rotated against the load of the torsion spring;

wherein either the frame structure of the seat cushion or the frame structure of the back rest has a support portion formed with an annular recess for engagement with the outer peripheries of said attachment members, and wherein said attachment members are assembled as a unit by engagement with the annular recess of the support portion of said frame structure at their outer peripheries.

4. A reclining mechanism as claimed in Claim 3, wherein said first attachment member is in the form of an arm member for attachment to the frame structure of said seat cushion, while said second attachment member is in the form of a disk member coupled within said arm member.

5. A reclining mechanism for a vehicle seat, comprising:  
a first attachment member mounted to a frame structure of a seat cushion or a back rest of the vehicle seat;

a second attachment member mounted to a frame structure of the other of the back rest or the seat cushion, the attachment members being coupled with each other at their outer peripheries and connected by means of a hinge pin for relative rotation about the hinge pin,

a slide pawl slidably mounted within one of the attachment members to be moved toward and away from a ratchet portion formed on an inner periphery of the other of the attachment members; and

a cam element mounted on the hinge pin in a space between said attachment members and being engaged with the slide pawl for maintaining it in engagement with the ratchet portion of the attachment member when the hinge pin is retained in position under load of a torsion spring assembled thereon and for disengaging the slide pawl from the ratchet portion of the attachment member when the hinge pin is rotated against the load of the torsion spring;

wherein one of said attachment members has an outer peripheral portion formed with a projection which is deformed radially inwardly by caulking and engaged with the outer periphery of the other of said attachment members to assemble said attachment members as a unit.

6. A reclining mechanism as claimed in Claim 5, wherein said attachment members each are in the form of a disk member, and wherein one of said attachment members has an outer peripheral portion formed with a plurality of circumferentially spaced semi-circular projections which are deformed radially inwardly by caulking and engaged with the outer periphery of the other of said attachment members to assemble said attachment members as a unit.

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7. A reclining mechanism as claimed in Claim 5, wherein the projection formed on the outer periphery of one of said attachment members is punched at its inside end face and deformed radially inwardly for engagement with the outer periphery of the other of said attachment members.

8. A reclining mechanism for a vehicle seat, comprising:

a first attachment member mounted to a frame structure of a seat cushion or a back rest of the vehicle seat;

a second attachment member mounted to a frame structure of the other of the back rest or the seat cushion, the attachment members being coupled with each other at their outer peripheries and connected by means of a hinge pin for relative rotation about the hinge pin,

a slide pawl slidably mounted within one of the attachment members to be moved toward and away from a ratchet portion formed on an inner periphery of the other of the attachment members; and

a cam element mounted on the hinge pin in a space between said attachment members and being engaged with the slide pawl for maintaining it in engagement with the ratchet portion of the attachment member when the hinge pin is retained in position under load of a torsion spring assembled thereon and for disengaging the slide pawl from the ratchet portion of the attachment member when the hinge pin is rotated against the load of the torsion spring;

wherein either the frame structure of the seat cushion or the frame structure of the back rest is formed with a pair of spaced support lugs which are deformed radially inwardly by caulking and engaged with an outer periphery of one of said attachment members to assemble said attachment members as a unit.

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9. A reclining mechanism for a vehicle seat, comprising:

a first attachment member mounted to a frame structure of a seat cushion or a back rest of the vehicle seat;

a second attachment member mounted to a frame structure of the other of the back rest or the seat cushion, the attachment members being coupled with each other at their outer peripheries and connected by means of a hinge pin for

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relative rotation about the hinge pin,

a slide pawl slidably mounted within one of the attachment members to be moved toward and away from a ratchet portion formed on an inner periphery of the other of the attachment members; and

a cam element mounted on the hinge pin in a space between said attachment members and being engaged with the slide pawl for maintaining the slide pawl in engagement with the ratchet portion of the attachment member when the hinge pin is retained in position under load of a torsion spring assembled thereon and for disengaging the slide pawl from the ratchet portion of the attachment member when the hinge pin is rotated against the load of the torsion spring;

wherein a thrust member is coupled with one of said attachment members and welded to the frame structure of the back rest or the cushion seat to assemble said attachment members as a unit.

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